

BASINSKI, Antoni; SŁĄCZKA, Michałina; PILAT, Danuta

Studies on the mechanism of purification of silver halide
sols by means of ion-exchangers. Pt.5. Rocznik chemii 37 no.2:
201-206 '63.

1. Department of Physical Chemistry, Copernicus University,
Toruń.

WAWRYK, Roman; SIEROM Gerard.

Weight and length of newborn infants depending on occupations
of the mothers. Gin. polska 28 no.2:241-257 Mar-Apr 1956.

1. Z Kliniki Polonictwa i Chorób Kobiecych A.M. w Zabrsu
Kierownik: prof. dr. W. Starzewski. Gliwice--Nowotki 46.

(INFANT, NEWBORN

length & weight, relation to maternal occupation (Pol))

(BODY WEIGHT, in infant and child,

birth weight, eff. of maternal occup. (Pol))

(BODY HEIGHT, in infant and child,

birth length, eff. of maternal occup. (Pol))

MUSIOLIK, Marian; GORNA, Maria; SIERON, Gerard

Results of examinations of women working in the coal industry.
Gin. polska 28 no.5:559-569 Sept-Oct 57.

1. Z Kliniki Poloznictwa i Chorob Kobiecyh Sl. A. M. w Zabrus
Kierownik: doc. dr W. Starzewski i z Panstwego Instytutu Medycyny
Pracy w Przemysle Weglowym i Hutniczym w Zabrus-Rokitnicy. Dyrektor:
prof. dr B. Nowakowski. Adres: Rybnik, ul. Tuwima 2.

(GYNECOLOGICAL DISEASES, statist.
in women workers in coal indust. in Poland (Pol))

GLOWINSKI, Mieczyslaw; LIPIANSKI, Marian; SIERON, Gerard

Determination of Largactil in urine of puerperae and newborn infants by means of paper chromatography. Polski tygod.lek. 15 no 14:497-501 4 Apr '60.

1. Z I Kliniki Położnictwa i Chorob Kobiecych Sl. A.M.; kierownik: prof.dr Wojciech Starzewski i z Wojewódzkiej Przychodni Immunopatologicznej Ciąży i Noworodka w Katowicach; kierownik: dr Marian Skorczyński.

(CHLORPROMAZINE urine)
(INFANT NEWBORN urine)
(PUERPERIUM urine)

STARZEWSKI, Wojciech; GLOWINSKI, Mieczyslaw; MUSIOLIK, Marian; SIERON,
Gerard; SMOK, Jan; WARONSKI, Wladzimierz

Studies on blood coagulation in normal and pregnant subjects in
the Upper Silesia. Polski tygod.lek. 15 no.24:897-902 13 Je '60.

1. Z I Kliniki Polonictwa i Chorob Kobiecych Sl. A.M. w Zabrze,
kierownik: prof dr W. Starzewski.

(BLOOD COAGULATION)
(PREGNANCY blood)

STARZEWSKI, Wojciech; GLOWINSKI, Mieczyslaw; MUSIOLIK, Marian; SIERON,
Gerard; SMOK, Jan; WIRONSKI, Wladzimierz

Blood coagulation during pregnancy, labor and puerperium. Communi-
cation I. Fibrinogen and fibrinolysis during pregnancy, labor and
puerperium. Gin.polska 31 no.3:359-366 My-Je '60.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych Slaskiej A.M. w
Zabru Kierownik: prof. dr W.Starzewski.

(PREGNANCY blood)

(LABOR blood)

(PUERPRIUM blood)

(FIBRINOGEN)

(FIBRINOLYSIS)

STARZEWSKI, Wojciech; GLOWINSKI, Mieczyslaw; MUSIOLIK, Marian; SIERON, Gerard;
SMOK, Jan; WARONSKI, Wlodsimierz

Blood coagulation in pregnancy, labor and puerperium. III. Pro-
thrombin and factor VII in pregnancy, labor and puerperium. Gin.
polska 31 no.6:661-667 N-D '60.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych Slaskiej AM. w Zabrsu
Kierownik: prof. dr W. Starzewski.

(PREGNANCY blood) (LABOR blood)
(PUERPERIUM blood) (BLOOD COAGULATION)

STARZEWSKI, Wojciech; GLOWINSKI, Mieczyslaw; MUSIOLIK, Marian; SIERON, Gerard;
SMOK, Jan; WARONSKI, Wladzimierz

Blood coagulation in pregnancy, labor and puerperium. IV. Factor V
in pregnancy, labor and puerperium. Gim.polska 31 no.6:669-674
N-D '60.

1. Z I Kliniki Położnictwa i Chorob Kobiecych Śląskiej AM w Zabrzu
Kierownik: prof. dr. W. Starzewski.

(PREGNANCY blood) (LABOR blood)
(PUERPERIUM blood) (BLOOD COAGULATION)

SIERON, Gerard

Attempted regulation of the blood serum iron level with the
aid of phenactyl in cases of threatened abortion. Ginek.
pol. 34 no. 5:583-588 *63.

1. Z I Kliniki Położnictwa i Chorob Kobiecych Sl. AM w
Zabrze. Kierownik: prof.dr.med. M.Glowinski

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SIRCOLM K., J.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Biological Chemistry

Toxicity of pentothal. J. Sieroslawska (Acad. Med. Krakow), Polska Akad. Umiejetnosci, Prace Komisji Nauk Farm., Dissertationes Pharm. 4, 1-31 (1952).—Pentothal anesthesia (in single or multiple doses) (1) caused a decrease in blood glucose in rabbits, (2) did not affect the hyperglycemic curve after intravenous high-glucose feeding, (3) accelerated the return to normal of the sugar curve after intravenous infusion of galactose and adrenaline, (4) did not affect the rate of disappearance of bromosulfophthalein from blood, (5) did not affect the blood nonalbumin protein and chlorides, (6) caused an insignificant anemia with lowering of hemoglobin content without affecting the white cell picture, (7) did not affect the resistance of red blood cells, (8) had no effect on a hypotonic state, (9) did not cause sulfhemoglobinemia or methemoglobinemia, (10) caused hyperemia in liver, kidneys, spleen, and cardiac muscle without degenerative or necrotic anatomical changes. Therefore the toxicity of pentothal was found to be low in anesthetic doses. 53 references.

L. J. Plotrowski

SIEPOSŁAWSKA, J.

3
✓ Medicinal value of *Digitalis lanata*. M. Gerty-Kostyl and I. Sieposławska (*Prace Kom. Nauk. Instytutu Polak. Dział. 1952*, T. 1, No. 207). Studies of the medicinal properties of *Digitalis lanata* (cultivated in Poland) showed that the leaves of the plant (in form of powder or infusion) can be effectively used in heart diseases; their action is stronger and more rapid, but of shorter duration, than that of *Digitalis purpurea*. They produce no toxic symptoms, e.g., irritation of the digestive tract. Results from clinical tests were in good agreement with pharmacodynamic determinations. In medicinal prep., care must be taken to eliminate the harmful effects of the enzymes, alkali, and acids present in the leaves.
A. Stowarz

SIEROSLAWSKA 5

Investigations on tissue respiration in post-hemorrhagic hypotension. J. Sieroslawska and J. Ozacki. *Polski Tygodnik Lekarski* 7, 1621-34 (1952); *Excerpta Med.*, Sect. II, 7, 51 (1952).—Forty minutes after the loss of about $\frac{1}{3}$ of the circulating blood in the rat, the Q_o of hepatic, myocardial, and renal tissue increases in comparison with controls. Administration of pure O₂ in the period of post-hemorrhagic hypotension inhibits the increase of Q_o in hepatic and myocardial tissues but does not influence that in renal tissue.

P. M. R.

SIEROSIANSKA, J.; OSZACKI, J.

~~Experimental studies of tissue respiration disorders during post-hemorrhagic decrease of blood pressure and of the effect of oxygen on these disorders. Polski tygod. lek. 7 no. 49:306*-312*; contd. 8 Dec 1953.~~

1. Of the Pharmaco-Dynamics Laboratory (Head--Prof. J. Hano, M.D.) and of the Third Surgical Clinic (Head--Prof. J. Jasieniak, M.D.), Krakow Medical Academy.

SIEROSLAWSKA, Janina; OSZACZI, Jan

Tissue respiration in tourniquet shock. Polski tygod.lek.
10 no.27:902-903 4 July '55.

l. Z Pracowni Farmakodynamiki A.M. w Krakowie; kierownik:
prof. dr J. Hane i z III Kliniki Chirurgicznej A.M. w Krakowie;
kierownik: prof. dr Jerzy Jasieniak) Pracownia Farmakodynamiki
Wdyz. Farm.A.M. w Krakowie, ul. Grzegorzecka 16.

(SHOCK, experimental,
tissue resp. in tourniquet shock)
(METABOLISM, TISSUE,
in tourniquet shock)

SIEROSLAVSKA, Janina; OSZACKI, Jan.

Tissue respiration in cutaneous burns in rats. Polski tygod.lek.
10 no.44:1450-1451 31 Oct 55.

1. Z Pracowni Farmakodynamiki A.M. w Krakowie; kierownik: prof. dr. J.Hano z III Kliniki Chirurgicznej A.M. w Krakowie; kierownik: prof. dr. J.Jasienski. Pracownia Farmakodynamiczna Wydz. Farm. A.M. w Krakowie, ul. Grzegorzecka 16.

(BURNS, experimental,
tissue resp. in)

(METABOLISM, TISSUE,
in resp. of tissue in exper. burns)

HANO, J., SIEROSLAWSKA, J.

Investigations on biological action of Adonis vernalis L. Acta
Poloniae pharm. 11 Suppl.:70-72 1955.

1. Pracownia Farmakodynamiki A.M., Krakow.
(ADONIS,
vernalis, biol. action)

Sierostawska, J.

Pharmacological activity of *Adonis vernalis* cultivated in Poland. Józef Hano and Janina Sierostawska (Med. Acad., Kraków, Poland). *Dissertationes Pharm.* 8, 37-40 (1955) (English summary).—*A. vernalis* growing wild in Poland has an av. toxicity of 23 cat units and 11.5 pigeon units/g. of dry pulverized herb. The imported drug had a much lower biological activity (14-17.5 cat units). The activity stays constant during the first 2 years of normal storage, decreases 10% during the 3rd year, and 20% during the 4th year. It is recommended that 20 cat or 10 pigeon units in 1 g. of dry pulverized drug be considered as the pharmacological norm and that the native herb, renewed every 3 years, be used as a temporary standard. *A. vernalis* is becoming a rare plant in Poland and is at present protected. The authors recommend that plantations be started in districts which seem to possess the required climatic conditions. Alina S. Sierostawska.

OSZACKI, Jan; SIEROSLAWSKA, Janina

Effect of injury on oxygen intake by tissue. Polski
przegl. chir. 28 no.5:451-453 May 56.

1. Z Pracowni Farmakodynamiki A.M. w Krakowie, Kierownik:
prof. dr. J. Hano i z II Kliniki Chirurgicznej A.M. w Krakowie
Kierownik: prof. dr. K. Michejda Krakow, ul. Kopernika 21.

(METABOLISM,
oxygen consumption, eff. of exper. inj. (Pol))
(WOUNDS AND INJURIES, experimental,
eff. on oxygen consumption (Pol))

SIEROTAWSKA, Janina

Pharmacological properties of gamma-aminobutyric acid (GABA)
and its derivatives. Post. hig. med. dosw. 18 no.3:413-462
*64

I. z Zakladu Farmakodynamiki Akademii Medycznej w Krakowie
(Kierownik: prof. dr. J. Hanc).

SIEROSLAWSKA, Janina

Pharmacologic properties of γ -aminobutyric acid and its derivatives.
II. Effect on the central and peripheral nervous system. Arch.
immun. ther. exp. 13 no.1:70-126 '65

1. Department of Pharmacodynamics, School of Medicine, Cracow.

SIEROSLAWSKA, Teodozja

Electrophoretic picture of blood serum proteins after therapy with
typhoid vaccine. Klin.ocsna 30 no.2:163-165 '60.

1. Z Kliniki Ocznej A.M. we Wrocławiu. Kierownik: prof.dr med.
W.J. Kapuscinski.

(BLOOD PROTEINS)
(TYPHOID IMMUNOL.)
(VACCINATION)
(EYE dis.)

SIEROSLAWSKA, Teodozja

A case of carcinoma planocellularare of the conjunctiva and cornea.
Klin.oczna 30 no.3;283-286 '60.

l. z Kliniki Ocznej A.M. we Wroclawiu. Kierownik: prof. dr med.
W.M.Kapuscinski.
(EYE neopl)
(CARCINOMA casereports)

KAPUSCINSKI, Witold J.; MEJBAUM-KATZENELLENBOGEN, Wanda; SIEROSLAWSKA, Teodozja

Paper electrophoresis of proteins in the aqueous humor in experimental
uveitis in the rabbit. Klin. oczna 31 no.4:325-330 '61.

l. Z Kliniki Ocznej AM we Wrocławiu Kierownik: prof. dr med. W. J.
Kapuscinski Z Zakładu Chemii Fizjologicznej AM we Wrocławiu Kierownik:
prof. dr W. Mejbaum-Katzenellenbogen.

(UVEITIS exper) (PROTEINS metab)
(AQUEOUS HUMOR metab) (ELECTROPHORESIS)

SIEROSLAWSKA, Teodozja

On electrophoresis of the lens. Klin. oczna 32 no.2:105-110 '62.

1. Z Kliniki Chorob Oczu AM we Wrocławiu Kierownik: prof. dr med.
W. J. Kapuscinski.

(LENS CRYSTALLINE chem) (ELECTROPHORESIS)
PROTEINS chem)

SIEROSLAWSKA, Teodozja; BRODZIAK, Kazimiera

Influence of chymotrypsin on adhesion of the front part of the choroid.
Klin. oczna 32 no.3:215-219 '62.

1. Z Kliniki Chorob Oczu AM we Wrocławiu Kierownik: prof. dr med.
W. Kapuscinski.
(CHYMOTRYPSIN) (CHOROID) (SCLERA)

Wojciech Kowalski, Stefan Wyszyński, Stefan Gąsienica, Stefan
Korwin, Stefan, Stefan Wyszyński, Stefan; Stefan Kowalski, Stefan
Korwin, Stefan Wyszyński, Stefan, Stefan Wyszyński, Stefan. Acta
polon. leg. 14, nr.413-433, 1947-1953.

1. Wyszyński Stefan (Kowalski; sio. dr. J.A. Gertner)
1. Wyszyński Stefan (Kowalski; sio. dr. J.A. Gertner); Krakowie
(kronikarz; prof. dr. J. Aleksanderowicz).

SIEROSZEWSKI, Jozef; SAKOWSKI, Jan; MALEWSKI, Konrad

Treatment of thrombosis of the lower extremities by drip transfusion
of the blood or plasma. Polski tygod. lek. 9 no.38:1236-1237 20 Sept 54.

1. Z Kliniki Polonictwa i Chorob Kobiecyh A.M. w Lodz, kierownik:
prof. dr med. J.Sieroszewski.

(BLOOD TRANSFUSION, in various diseases,
thrombosis of leg, drip transfusion)

(THROMBOSIS,
leg, ther., drip blood transfusion)

(LEG, BLOOD SUPPLY,
thrombosis, ther., drip blood transfusion)

SIEROSZENSKI, Józef.

Prof. Dr Wilhelm Włodzimierz Sowiński. Gm. polka 27 no.1:
1-6 1956.

(OBITUARIES.

Sowiński, Wilhelm W.)

(BIOGRAPHIES,

Sowiński, Wilhelm W., bibliog.)

SIEROSZEWSKI, Józef.

Precancerous conditions of the uterus. Gin. polska 27 no.1:
99-109 1956.

1. Z I Kliniki Chorob Kobiecych i Położnictwa A.M. w Łodzi
Kierownik: prof. dr J.Sieroszewski. Łódź, Moniuszki 1.
(UTERUS, neoplasms,
precancer (Pol))

KOMOROWSKA, Alina; LINIECKA, Janina; SIEROSZEWSKI, Jozef

Gynecological dispensary for children. Gin. polska 28 no.5:
571-578 Sept-Oct '6.

1. Z Kliniki Polonistwa i Chorob Kobiecych A.M. w Lodzi
Kierownik: prof. dr. med. J. Sieroszewski, A. Komorowska.
Lodz, Plac Dabrowskiego 2.

(CLINICS,
pediatric gyn., organiz. & work in Poland (Pol))

(GYNECOLOGICAL DISEASES, in infant and child
clinics, organiz. & work in Poland (Pol))

(PEDIATRIC DISEASES
gyn., clinics, organiz. & work in Poland (Pol))

SIEROSZEWSKI, Josef (Lodz, Piotrkowska 203 m. 5.)

Surgery of vesicovaginal & rectovaginal fistulae using a modified Sposokukocki technic. Gin. polska 29 no.2:195-200 Mar-Apr 58.

l. Z I Kliniki Poloznictwa i Chorob Kobiecyh A. M. w Lodzi Kierownik:
prof. dr med. J. Sieroszewski.

(FISTULA, VESICOVAGINAL, surg.
technic (Pol))

(VAGINA, fistula
rectovaginal, surg. technic (Pol))

(RECTUM, fistula
same)

SIEROSZEWSKI, Jozef; LAUDINSKA, Estella; NOWICKI, Zbigniew

Surgical therapy of inflammatory conditions of the adnexa
uteri. Gin.polski. 30 no.6:713-727 N-D '59.

1. Z I Kliniki Polozmictwa i Chorob Kobiecych A.M. w Lodzi
Kierownik: prof. dr J. Sieroszewski.
(ADNEXITIS surg)

SIEROSZEWSKI, J.; PAJSZEZYK, L.; KESZKIEWICZ, E.

On the incidence of shock in relation to the course of pregnancy
and labor. Akush.i gin. 36 no.1:42-45 Ja-P '60.

(MIRA 13:10)

(PREGNANCY, COMPLICATIONS OF) (SHOCK)
(LABOR, COMPLICATED)

SIEROSZEWSKI, Józef; KICINSKI, Janusz; NOWICKI, Zbigniew; PAJSZCZYK-KLESZKIEWICZ,
Teresa; WOŁODZKO, Leon

Heart defects from the obstetric viewpoint. Gin. polska 32 no.2:135-144
'61.

1. Z I Kliniki Położnictwa i Chorob Kobiecych A.M. w Łodzi Kierow-
nik: prof. dr J. Sieroszewski
(HEART DISEASE in pregn)
(PREGNANCY compl)

SIEROSZEWSKI, Józef; LIUDANSKA, Estella; SAKOWSKI, Jan; KROLIKOWSKA, Maria;
NOWICKI, Zbigniew; LACHOWICZ, Lilla

Selected hemodynamic problems in 3d stage of labor. Gin. polska 32
no.2:177-184 '61.

1. Z I Kliniki Położnictwa i Chorob Kobiecych A.M. w Łodzi Kierownik:
prof. dr J. Sieroszewski
(LABOR blood)

SIEROSZEWSKI, Jozef; LAUDANSKA, Estella; SAKOWSKI, Jan; KROLIKOWSKA, Maria;
NOWICKI, Zbigniew

Hemorrhage in 3d stage of labor. Gin. polska 32 no.2:185-190 '61.

1. Z I Kliniki Ginekologicznej i Chorob Kobietych A.M. w Lodz. Kierow-
nik: prof. dr J. Sieroszewski
(HEMORRHAGE POSTPARTUM)

SIEROSZEWSKI, Józef; LAUDANSKA, Estella; SAKOWSKI, Jan; KROLIKOWSKA, Maria
NOWICKI, Zbigniew

Pharmacological management of 3d stage of labor. Gin. polska 32
no.2:197-201 '61.

1. Z I Kliniki Położnictwa i Chorób Kobiecych A.M. w Łodzi Kie-
rownik: prof. dr J. Sieroszewski
(HEMORRHAGE POSTPARTUM prev & control)

SIEROSZEWSKI, Jozef; PAJZCZYK, Teresa; KIESZKIEWICZ, Jerzy

Shock in obstetrics (according to clinical data in the period of
1955-1959. Gin. polska 32 no.2:203-214 '61.

1. Z I Kliniki Płodnictwa i Chorob Kobiecych A.M. w Łodzi Kie-
rownik: prof. dr J. Sieroszewski
(SHOCK in pregn)
(PREGNANCY compl)
(LABOR compl)

SIEROSZEWSKI, Jozef; SAKOWSKI, Jan

Author's own method in the treatment of thrombotic conditions of
the lower extremities. II. Gin. polska 32 no.2:265-275 '61.

1. Z I Kliniki Polonictwa i Chorob Kobiecych A.M. w Lodz. Kierownik:
prof. dr J. Sieroszewski
(THROMBOEMBOLISM ther)

SIEROSZEWSKI, Jozef, LAUDANSKA, Estella

Aldridge-Meredith method for total abdominal hysterectomy. Gin. polska
32 no.2:276-280 '61..

1. Z I Kliniki Polonictwa i Chorob Kobiecych A.M. w Lodzi Kierownik:
prof. dr J. Sieroszewski
(HYSTERECTOMY)

SIEROSZEWSKI, Jozef; SAKOWSKI, Jan

Gynecological operations (19~~50-59~~). Gin. polska 32 no.2:281-290 '61.

1. Z I Kliniki Położnictwa i Chorób Kobiecych A.M. w Łodzi Kierownik:
prof. dr J. Sieroszewski
(GENITALIA FEMALE surg)

SIEROSZEWSKI, Jozef; KOMOROWSKA, Alina; KURNATOWSKA, Alicja; LINIECKA, Janina

Fungus infections of the vulva and vagin in young girls. Gin. polska
32 no.4:491-502 '61.

1. Z I Kliniki Polonnicznej i Chorob Kobieczych AM w Lodzii Kierownik:
prof. dr J. Sieroszewski Z Zakladu Biologii i Parazytelegii Lekar-
skiej AM w Lodzii Kierownik: doc. dr R. Madlubowski

(VULVA dis.)

(VAGINA dis.)

(MYCOSIS in inf & child)

CIESLINSKI, Stanislaw; LENKO, Jan; SIEROSZEWSKI, Jozef

A case of vesicovaginal fistula. Gin. polska 32 no.5:573-576 '61.

1. Z Kliniki Urologicznej Wojskowej AM w Lodzi Kierownik: doc. dr
J.Lenko i z Kliniki Chorob Kobiecych i Poloznictwa Wojskowej AM w
Lodzi Kierownik: prof. dr J.Sierowszewski.
(VESICOVAGINAL FISTULA case reports)

PAWLIKOWSKI, Tadeusz; SIEROSZEWSKI, Jozef; BOJANOWICZ, Kazimierz;
RETERSKI, Zdzislaw

A case of true hermaphroditism with unusual formation of
the urogenital system. Endokr. pol. 14 no.4:317-327 '63.

1. I Klinika Chorob Wewnętrznych A.M. w Łodzi Kierownik: prof.
dr J.W. Grott Zakład Endokrynologii A.M. w Łodzi Kierownik:
prof. dr T. Pawlikowski I Klinika Polonictwa i Chorob Kobiecych
A.M. w Łodzi Kierownik: prof. dr J. Sieroszewski.
(HERMAPHRODITISM)

SIEROSZEWSKI, Jozef; LAUDANSKA, Estella; MAZUREK, Ludwik; TERLECKA, Helena,
GWOZDZ, Antoni; WISNIOWSKA, Alicja.

Urological changes following extensive gynecological surgery.
Pol. przegl. chir. 36 no.2:177-184 F'64

1. Z I Kliniki Chorob Kobiecych AM w Lodzi (kierownik: prof.dr.
J.Sieroszewski) i z Oddzialu Urologicznego (kierownik: doc. dr.
L. Mazurek) i I Kliniki Chirurgicznej AM w Lodzi (kierownik:
prof.dr. M.Stefanowski).

GAERTNER, Henryk; LISIEWICZ, Jerzy; SIEGESSLAWSKI, Hubert; SZIRMAI, Endre

The inactivation of thrombin by normal human urine. Pol. tyg. lek.
18 no.3:84-86 14 Jun '63.

1. Z Pracowni Hemo:statycznej; kierownik: dr H. Gaertner, III Kliniki
Chorob Wewnętrznych AM w Krakowie; kierownik: prof. dr J. Aleksandrowicz.
(THROMBIN) (URINE) (HYDROGEN ION CONCENTRATION)

SIEROTWINSKI

SIEROTWINSKI, S.

Seweryn Goszczynski' Dziennik Podrozy do Tatrow (Diary from a Journey to the Tatra Mountains): a book review.

P. 177 (Wierchy) Vol. 25, 1956, Krakow, Poland.

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

SIEROTWINSKI, S.

Did Goszcynski reach Ornak?

p. 264 (Wierchy) Vol. 25, 1956, Krakow, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

KLEPFINKI, Leonard

Utilization of the production capacity in the cable industry.
Problemy proj. hut maszyn 11 no. 98288-292 5'63

I. Prozmet, G. Budko

MANICKI, Jersy; SIEPINSKI, Maciej; STANKIEWICZ, Lech

Effect of stimulation of the vagus nerve on nitrogen balance
in dogs. Polski tygod.lek. 10 no.24:811-812 13 June '55.

1. Z II Kliniki Chirurgicznej A.M. w Warszawie; kierownik:
prof.dr med.Jan Mossakowski) Jabłonna, k. Warszawy, ul.
Modlinska 63.

(NERVES, VAGUS, physiology,
eff. of stimulation on nitrogen balance in dogs)
(NITROGEN, metabolism,
eff. of vagus stimulation in dogs)

MANICKI, Jerzy; SIERPINSKI, Maciej; STANKIEWICZ, Lech; RIESZKE, Halina;
ZIENKIEWICZ, Konrad.

The effect of high-fat diet on protein absorption in patients with
esophageal strictures. Polski tygod. lek. 11 no.2:49-53 9 Jan 56.

1. Z II Kliniki Chirurgicznej A.M. w Warszawie: kier: Kliniki:
prof. dr. med. Jan Mousakowski. Jabłonna k. Warszawy, ul.
Modlinska 63.

(ESOPHAGUS, stenosis
protein metab. in, eff. of high-fat diet)

(PROTEIN, metab.
in stenosis of esophagus, eff. of high-fat diet)

(DIETS
high-fat, eff. on protein metab. in esophageal stenosis)

(FATS, eff.
high-fat diet, eff. on protein metab. in esophageal stenosis)

SIERPINSKI, Maciej

Sarcoma of the gallbladder. Pol. przegl. chir. 34 no.10:1015-1017
'62.

l. z II Kliniki Chirurgicznej AM w Warszawie Kierownik: doc. dr
Z. Lapinski.

(SARCOMA) (GALLBLADDER)

SIERPINSKI, Maciej

Abscess of the liver as a complication of amebiasis. Pol.
tyg. lek. 18 no.26: 51-952 Je '63.

l. Z II Kliniki Churgicznej AM w Warszawie; kierownik
Kliniki: doc. dr med. Z. Lapinski.
(LIVER ABSCESS, AMEBIC) (DIOODOHYDROXYQUIN)
(IODOCHLOHYDROXYQUIN) (COLITIS, ULCERATIVE)
(EMETINE) (CHLORTETRACYCLINE) (CHLOROQUINE)

GRABOWSKI, Stefan; SIERPINSKI, Maciej

Our experience with the treatment of surgical wounds with the
use of Redon-Yost's hypotension. Pol. tyg. lek. 19 no.32:1236-
1237 10 Ag '64.

1. z II Kliniki Chirurgicznej Akademii Medycznej w Warszawie
(kier.: doc. dr med. Zdzislaw Lapinski).

EXCERPTA MEDICA Sec C Vol 13/8 Survey August 59

4436. MONDOR'S DISEASE - Choroba Mondora - Sierpinski M. II.Klin. Chir., Warszawa - POL.PRZEGL.CHIR. 1958, 30/8(863-865)

Thrombotic thoraco-epigastric phlebitis, described for the first time by Mondor, occurs fairly often and because it is not widely known, it is sometimes erroneously diagnosed (it is often ascribed to a neoplastic origin). This disease usually clears up spontaneously after 2-3 months; its aetiology is unknown. Only symptomatic treatment is required. Recurrences have not been noted.

SIERPINSKI, S.

GAFTEK, Ya.; KOZNEVSKAYA, G.; SKLETSKIY, B.; SERPINSKIY, S.; STEMPEN', L.;
TOCHIK, S.

Investigations on the pathophysiological mechanisms of speech
disorders in focal affections of the dominant hemisphere of the
brain. Zhur. nevr. i psikh. 55 no. 12:922-927 '55. (MIRA 9:2)

1. Otdel neurokhirurgii Gosudarstvennogo psichoneurologicheskogo
instituta (dir.-prof. Z. Kuligovskiy) Varshava.

(SPEECH, DISORDERS, etiology and pathogenesis,
brain lesions of dominant hemisphere)

(BRAIN, diseases,
lesions of dominant hemisphere causing speech disorder)

STEPIEN, Lucjan; SIERPINSKI, Stanislaw

Effect of focal lesions of the brain on recent visual and auditory
memory in men. *Rozpr.wydz.nauk med.* 6 no.2:203-226 '61.

1. Z Zakladu Neurochirurgii Polskiej Akademii Nauk Kierownik: prof.
dr med. L. Stepień.

(BRAIN wds & inj) (MEMORY) (VISUAL PERCEPTION)
(HEARING)

SIERPINSKI, Stanislaw; TOCZEK, Stanislaw

Anomalous course of posterior inferior cerebellar arteries as a cause of the clinical picture simulating syndrome of posterior cranial fossa tumor. ~~Neurologia~~ etc. polska 11 no.6:757-766 '61.

l. Z Kliniki Neurochirurgii AM w Warszawie Kierownik: prof. dr med.
J. Chorobski.
(CEREBELLUM blood supply) (BRAIN NEOPLASMS diag)

GRUSZKIEWICZ, J.; MAZUROWSKI, W.; SIERPINSKI, S.; SWITKA, S.

An unusual case of a foreign body in the lateral cerebral ventricle.
Neurol. neurochir. psychiat. pol. 12 no.1:135-137 '62.

1. Z Kliniki Neurochirurgicznej AM w Warszawie Kierownik: prof. dr
J. Chorobski i z III Kliniki Chirurgicznej AM w Warszawie Kierownik:
prof. dr J. Raczyński.

(CEREBRAL VENTRICLES for body)

GRUSZKIEWICZ, J.; MAZUROWSKI, W.; SIERPINSKI, S.; SWITKA, A.

A case of a peculiar foreign body in the lateral ventricle of the brain. Neurol neurochir psych 12 no.1:135-137 Ja- F '62.

1. Klinika Neurochirurgiczna, Akademia Medyczna, Warszawa; Kierownik: prof. dr J. Chorobski; i III Klinika Chirurgiczna, Akademia Medyczna, Warszawa; Kierownik; prof. dr J. Raczyński.

SIERPIŃSKI, WA

ZAW

Sierpiński, Wa
Math. 33, 235-244 (1945). [MF 16876]

Let us say that 2 subsets A and B of Euclidean 3-space E_3 are n -equivalent by decomposition if they are respectively expressible as the sum of n (mutually) disjoint subsets A_i , B_j , $i=1, \dots, n$: $A = \sum_{i=1}^n A_i$, $B = \sum_{j=1}^n B_j$ (i.e., $A_i A_j = B_i B_j = 0$ for all $i \neq j$), such that A_i is congruent to B_j , $i=1, \dots, n$. The author proves the theorem: every sphere S of E_3 is the sum of 2^n disjoint subsets of which each is n -equivalent to S with $n=9$. The proof utilizes a result of Hausdorff and an idea of J. von Neumann and connects with his assertive results of Hausdorff, Banach and Tarski, von Neumann, and the author.

II. Blumberg (Columbus, Ohio).

Source: Mathematical Review, Vol. 8, No. 3

Set
Topology

SM
JF

SIERPIŃSKI, WACŁAW

Sierpiński, Wacław
la propriété λ .

Math.
L'auteur étudie les relations entre diverses propriétés des ensembles linéaires : propriété λ de C. Kuratowski [Fund. Math. 21, 127-128 (1933)], propriété λ' définie par l'auteur [C. R. Soc. Sci. Lett. Varsovie 30, 257-259 (1937)], et ensemble concentré de A. S. Besicovitch [Acta Math. 62, 289-300 (1934)]. Un ensemble E est dit avoir la propriété λ si pour tout dénombrable D contenu dans E il existe un G_1 contenant D et dont l'intersection avec E se réduit à D . La propriété λ' se définit en supprimant dans l'énoncé de λ "contenu dans E ". Un ensemble E est dit concentré s'il existe un dénombrable D tel que tout ouvert contenant D contient E à un dénombrable près.

L'auteur établit d'abord que λ' équivaut à la condition de ne contenir aucune partie non dénombrable concentrée. Il démontre ensuite que, contrairement à λ , la propriété λ' ne se conserve pas par une homéomorphie sur E . Il utilise pour cela le résultat suivant de F. Rothberger, énoncé sans référence. Il existe un ensemble concentré H formé de nombres irrationnels qu'on peut appliquer d'une manière biunivoque et continue sur un intervalle fermé. Les démonstrations font appel à l'hypothèse du continu. En terminant, l'auteur introduit la propriété λ' relative au plan et la relie à la précédente.

R. de Fosset (Alger).

Source: Mathematical Reviews, Vol 8, No. 3

SIERPIŃSKI, WACŁAW On the
Topological Non-Invariant
Property of Property λ

SIERPIŃSKI, WACLAW

Sierpiński, Waclaw. Sur deux conséquences d'un théorème
de Hausdorff. Fund. Math. 33, 269-272 (1945).

[MF 16877]

Without the hypothesis of the continuum, F. Hausdorff demonstrated that the line is a sum of a transfinite series of type \aleph_0 of actually increasing G_α sets. Using this theorem, Sierpiński shows that (1) there is a linear set E such that D linear and denumerable implies D is a G_α relative to $E+D$; (2) there is a decomposition of the line into nonempty disjoint F_α sets. Both results were previously known under the hypothesis of the continuum. There is a discussion of the relation of these results to others and it is pointed out that it is still not known whether, without the hypothesis of the continuum, F_α can be replaced in statement (2) by G_α .

J. P. Randolph (Oberlin, Ohio). *Sp. 2001*

Source: Mathematical Reviews, Vol 8, No. 3

Sierpiński, Waclaw

ed

*Sierpiński, Waclaw. *Zasady Algebra Wyższej*. [Principles of Higher Algebra]. With an appendix by Andrzej Mostowski: Outline of Galois Theory. Monografie Matematyczne, vol. 11. Warszawa-Wrocław, 1946. xii+437 pp. (Polish) *10*

This textbook covers in a very thorough but elementary way the basic facts of classical algebra, leading up and into modern algebra. It stops short of ideal theory. The list of chapter headings with brief comments in parentheses should give an idea of the scope of the book. (I) Permutations, (II) Determinants, (III) Solution of linear equations, (IV) Linear transformations, (V) Matrices, (VI) Complex numbers, (VII) Proof of the fundamental theorem of algebra, (VIII) Polynomials (arithmetic of polynomials in the complex domain, interpolation formulae, decomposition of rational functions into simple fractions), (IX) Symmetric polynomials, (X) Equations of the 2d, 3d, and 4th degree,

(XI) Equations of the division of the circle (roots of unity), (XII) Algebraic numbers (in the field of complex numbers), (XIII) Number fields (in the complex domain), (XIV) Impossibility proofs (trisection and similar topics), (XV) Systems of two algebraic equations, (XVI) Calculation of roots of algebraic equations (Sturm's and Newton's methods), (XVII) General theory of operations (abstract theory of binary operations), (XVIII) Substitutions, (XIX) Groups, (XX) Generalization of number fields (abstract fields).

The appendix by Mostowski gives a lucid and elementary account of Galois theory. The definition of the Galois group (separable case) is by means of substitutions on the roots of a polynomial. The fundamental theorem of Galois theory and its application to the solution of equations are treated.

S. Eilenberg (New York, N.Y.)

*RSS 8/28/84
M/S*

Source: Mathematical Reviews.

Vol No.

SIERPINSKI, W.

(Sierpiński, W. Sur un problème de triades. C. R. Soc.
Sér. Varsovie 33-38, 13-16 (1946). (French, Polish
summary)

A set E is said to have the property of Steiner if there exists a family \mathfrak{F} of three-element subsets of E such that any two-element subset of E lies in exactly one set of the family \mathfrak{F} . It is known that a finite set has the property of Steiner if and only if its cardinality is of the form $6k+1$ or $6k+3$. [See E. Netto, Lehrbuch der Combinatorik, 2d ed., Teubner, Leipzig, 1927, pp. 202-218.] The author proves by using the axiom of choice that every infinite set has the property of Steiner. W. Gustin (Bloomington, Ind.).

Source: Mathematical Reviews,

Vol. 6 No. 10

Sierpiński, Waclaw

Nett

Sierpiński, Waclaw

communes une
mesurable. A
(1947).

A function f is called an accumulation function of a sequence f_k , $k = 1, 2, \dots$, if for each $\epsilon > 0$ and each finite system x_1, x_2, \dots, x_m , there are an infinity of indices such that $|f_k(x_i) - f(x_i)| < \epsilon$, $i = 1, 2, \dots, m$. The title states the results. There are some minor misprints.

J. P. Randolph (Rochester, N. Y.).

Source: Mathematical Reviews,

Vol. 12 No. 10

SIERPINSKI, WACLAW: On an Infinity of Continuous Functions, Any Accumulation Function of Which Cannot Be Measured [v]

SIERPIŃSKI, WACŁAW

Sierpiński, W.
et Paranomos

Denote by $m \geq n$ such that $m \neq n$.
Denote by H the hypothesis that, m being any cardinal
such that $m \geq n$, there is no cardinal n such that $m < n < 2^m$.
Denote by A this hypothesis for a particular m . A. Linden-
baum and A. Tarski [C. R. Soc. Sci. Varsovie, Cl. III, 19,
299-330 (1926)] stated without proof that H implies
the axiom of choice and that if, for a given m , H is true
for $p = m$, 2^p and 2^{p+1} , then m is an aleph. The author
establishes the first result and then, by slight modifications
of the proof, obtains the second also. J. Told.

Source: Mathematical Reviews.

Vol. 8 No. 9

Sierpiński, Waclaw

Sierpiński, Waclaw

Sur un théorème de M. Tarski concernant les alephs

It was announced without proof by A. Tarski [Lindenbaum and Tarski, C. R. Soc. Sci. Lett. Varsovie. Cl. III. 19, 299-300 (1926)] that the equivalence of the following statements can be established without the use of the axiom of choice: (a) m is an aleph; (d) $[m + \aleph(m)] = m = \aleph(m)$. Here $\aleph(m)$ is the smallest aleph \aleph for which the inequality $n \leq m$ does not hold.

The author shows that if Tarski's statement is true, then it can also be proved without using the axiom of choice that $n \leq m$ holds for every infinite cardinal m . However, since it has been shown by R. Doss [J. Symbolic Logic 10, 13-15 (1945); these Rev. 7, 46] that this inequality cannot be proved without using the axiom of choice, we may conclude that Tarski's theorem is false.

B. Jonsson (Providence, R. I.).

Source: Mathematical Reviews, 1948,

Vol. 9, No. 1

Sierpinski, Waclaw

Sierpinski, W.

Source: 3

Fund. Math.

Proof, with

axiom) of the

real numbers

effectively de

the planar set P ,

and a decomposition τ

of P into k di

joint subsets, where k

is the cardinal of E ,

such that every constituent of τ

is congruent to P (in

the Euclidean sense of superposition). A. Lindenbaum an-

nounced this r

sult without proof [Lindenbaum and Tarski,

C. R. Soc. Sci.

Lett. Varsovie, Cl. III, 19, 299-330 (1926),

p. 327] as a

bere existence theorem, asserting its provability

with the

aid of the axiom of choice. The proof utilizes

the function

$$f(t) = \sum_{n=0}^{\infty} 2^{n t n} - 2^{-t}$$

where t denotes

result of von

any finite set

effectively a

disjoint sum of 2

a problem of

law. Sur un ensemble plan qui se décom-
ensembles disjoints superposables avec lui.

34, 9-13 (1947).

at use of the axiom of choice (multiplicative
following theorem. If E is any given set of
in the interval $0 \leq t < 1$, and $0 \in E$, one may
effectively define a planar set P , and a decomposition τ
of P into k disjoint subsets, where k is the cardinal of E ,
such that every constituent of τ is congruent to P (in
the Euclidean sense of superposition). A. Lindenbaum an-

nounced this r

sult without proof [Lindenbaum and Tarski,

C. R. Soc. Sci.

Lett. Varsovie, Cl. III, 19, 299-330 (1926),

p. 327] as a

bere existence theorem, asserting its provability

with the aid of the axiom of choice. The proof utilizes

the function

$f(t) = \sum_{n=0}^{\infty} 2^{n t n} - 2^{-t}$

where t denotes

result of von

any finite set

effectively a

disjoint sum of 2

a problem of

Steinhaus.

H. Blumberg.

Source: Mathematical Reviews,

1948, Vol. 9, No. 1

SPW

Sierpinski, Wacław

Sierpiński, Wacław

Deux théorèmes sur les familles de
fonctions

Fund. Math. 34, 30-33 (1947).

The author proves the following theorem: if M is an infinite set of cardinal number m and F is a family having cardinal number n of functions defined on M (with values in M or not in M), then there exists a family Φ consisting of 2^m subsets of M such that $f(E) \neq H$ for all $E, H \in \Phi$ such that $E \neq H$ and $f \in F$. The proof does not consider one special case. A second theorem of the same general character is proved.

E. Hewitt (Chicago, Ill.).

Source: Mathematical Reviews, 1948, Vol. 9, No. 1

Sierpinski, Waclaw

Sierpinski, Waclaw. Les correspondances multivoques et l'axiome du choix. Fund. Math. 34, 39-44 (1947).

D. König [Fund. Math. 8, 114-134 (1926)], using the axiom of choice, showed that if an (n, n) correspondence exists between two sets then a $(1, 1)$ correspondence can be set up between these sets in such a way that the correspondent in it of an element is one of its n correspondents in the (n, n) correspondence. It is now shown that a proof of this result in the case $n = 2$ which does not appeal to the axiom of choice would imply a proof, without use of this axiom, of the existence of a set not measurable-L. It is shown that the special case $n = 2$ of König's result is a consequence of the special case of the axiom of choice concerned with selection from classes of couples. J. Todd.

Source: Mathematical Review.

Vol. 8 No. 10

Sierpiński, Waclaw

Sierpiński, Waclaw. Sur un problème concernant le crible
de M. Lusin. Fund. Math. 34, 69-71 (1947).

A sieve can be regarded as a function $E(r)$ associating a set $E(r)$ with each rational r . Its nucleus is the set $K_r(E(r)) = \sum \prod_i E(r_i)$, where the summation is over all decreasing sequences $\{r_i\}$. Consider $E(u, v)$, a function associating a set $E(u, v)$ with each pair of rationals u, v . Write $E(u) = K_u(E(u, v))$, $E = K_0(E(u))$. Kuratowski suggested the problem: do there exist functions $\phi(r), \psi(r)$, associating rationals with the rational r , such that if $E(r) = E(\phi(r), \psi(r))$ then $E = K_r(E(r))$? It is shown that the answer is in the negative.

Denote by $K(\Phi)$ the class of all sets $K_r(E(r))$ where the $E(r)$ are sets of a class Φ . It is known that $KK(\Phi) = K(\Phi)$ whenever Φ is a (finitely) multiplicative class. This result is not, however, true for arbitrary classes. J. Tondi.

Source: Mathematical Reviews, Vol. 8 No. 10.

SIERPIŃSKI, WACLAW

Sierpiński, Waclaw. Un théorème sur les puissances des ensembles. Fund. Math. 34, 72-74 (1947).

The following theorem is established without appeal to the axiom of choice: if M is a class with cardinal m and N a subclass with cardinal n and if p satisfies $m \geq p \geq n$ then there exists a class P with cardinal p and such that $M \supset P \supset N$.

J. Todd (London).

Source: Mathematical Reviews,

Vol. 8 No. 10

SIERPINSKI, WACŁAW

{ Sierpiński, Wacław. Démonstration de l'égalité
2^m = 2ⁿ pour les nombres cardinaux transfinis.
Fund. Math. 34, 113-118 (1947).

Sierpiński, Wacław. Sur la différence de deux nombres
cardinaux. Fund. Math. 34, 119-126 (1947).

If m and n are two cardinals and if there exists a unique
cardinal p such that $m = n + p$, then one writes $p = m - n$.
The author proves without the use of the axiom of choice
various theorems concerning the subtraction of cardinals.
The above definition is due to A. Tarski who has also
announced, without proofs, most of the theorems proved
by the author [Lindenbaum and Tarski, C. R. Soc. Sci.
Lett. Varsovie. Cl. III, 19, 299-330 (1926)].

B. Jónsson (Providence, R. I.).

Source: Mathematical Reviews,

Vol 9 No. 9

SIERPINSKI, Wacław

Sierpiński, Waclaw. Sur les images de classe 1 d'ensembles linéaires. Fund. Math. 34, 163-165 (1947).

Let $f(x)$ be a real function of Baire class α on a linear set X . The set $f(X)$ is called an "image of class α " of X . The author proves that every image of class 2 of X is an image of class 1 of an image of class 1 of X . This theorem can be generalized to images of class n (finite), which can be represented as n -fold superposed images of class 1.

A. Rosenthal (Lafayette, Ind.).

Source: Mathematical Reviews, 1948, Vol 9, No. 4

8/23/2000

SIERPINSKI, WACLAW

Sierpinski, Wacław. Sur l'implication $(2m \leq 2n) \rightarrow (m \leq n)$
pour les nombres cardinaux. Fund. Math. 34, 148-154
(1947).

The author proves, without using the axiom of choice,
that if m and n are two cardinals such that $2m \leq 2n$, then
 $m \leq n$. This theorem was announced without proof by A.
Tarski [Lindenbaum and Tarski, C. R. Soc. Sci. Lett.
Varsovie, Cl. III, 19, 299-330 (1926)]. B. Jonson.

Source: Mathematical Reviews

Vol 9 No. 9

Sierpiński, Wacław

Sierpiński, Wacław. Sur l'inversion du théorème de Bolzano-Weierstrass généralisé. Fund. Math. 34, 155-156 (1947).

Let M be any metric space. A sequence $\{A_n\}_{n=1}^{\infty}$ of subsets of M is said to be convergent if, for every $p \in M$ and for every open sphere S with center p , $S \cap A_n = \emptyset$ for almost all n or $S \cap A_n \neq \emptyset$ for almost all n . The author proves that, if $2^{N_0} = N_1$, then every nonseparable metric space contains a sequence of subsets which has no convergent subsequence.

E. Hewitt (Chicago, Ill.).

Source: Mathematical Reviews, 1948, Vol 9, No. 2

Small

Sierpiński, Waclaw

Sierpiński, Waclaw. Sur une proposition qui entraîne l'existence des ensembles non mesurables. Fund. Math. 34, 157-162 (1947).

The main concern of the author is to obtain certain known results without the use of the axiom of choice. He starts with proposition P : A "one-valued" image B of a set A (i.e., each element of A has a unique mate in B) is not of higher cardinal than A . On the basis of P , he proves successively, without resort to the axiom of choice, that: (1) $\aleph_1 \leq 2^{\aleph_0}$; (2) if 2^{\aleph_0} is the sum of 2 cardinals, at least one of them equals 2^{\aleph_0} ; (3) there exists a linear nondenumerable set containing no (nontnull) perfect set; (4) there exists a linear (Lebesgue) nonmeasurable set. The reasoning utilizes Lebesgue's decomposition of an interval into \aleph_1 (nontnull) disjoint sets [J. Math. Pures Appl. (6) 1, 139-216 (1905), p. 213]; and the author's result [Mathematica, Cluj 3, 30-32 (1930)] that if we can determine a linear order for the "Vitali classes" V (of real numbers), then we can define a (Lebesgue) nonmeasurable set; here V is a set consisting of all the real numbers which differ from a fixed real number by a rational amount. It is additionally shown that the axiom of choice is equivalent to the following proposition:

H. Blumberg (Columbus, Ohio).

Source: Mathematical Reviews,

Vol 9 No. 7

Spine
Index

SIERPINSKI, W.

Author: Sierpinski, W.

Title: Textbook of Introductory Elementary Functions.
267 pp.

Date: 1948. Warsaw

Subject: 1. Functions. 2. Calculus, Differential

Available: Library of Congress, Call No. QA303.S57 1923a
Brown University Library.

Source: Lib. of Cong. Subj. Cat., 1950, vol. 2

SIERPIŃSKI, W.

Sierpiński, W. Remarque sur la répartition des nombres premiers. Colloquium Math. 1, 193-194 (1948).

This note contains a proof of the following theorem: to each integer n there corresponds a prime $p > n$ such that not one of the integers $p \pm j$, $j=1, 2, \dots, n$, is a prime. The proof is simple, but uses the Dirichlet theorem about primes in an arithmetic progression. The author remarks that it would be interesting to discover an elementary proof of his result. Now that there are elementary proofs of the Dirichlet theorem his proof is technically elementary, but it would still be interesting to obtain a direct elementary proof.

R. D. James (Vancouver, B. C.).

Source: Mathematical Reviews.

Vol. 10 No. 1

SIERPINSKI, W.

Sierpinski, W. Sur une propriété de la droite qui résulte de l'hypothèse du continu. Mathematica, Timișoara 23, 52-53 (1948).

Proof by means of the continuum hypothesis, of the theorem that a straight line L is the sum of 2^{\aleph_0} disjoint sets E , each congruent to L by denumerable decomposition; i.e., L and each E are decomposable into \aleph_0 disjoint components: $L = \sum_{n=1}^{\infty} L_n$, $E = \sum_{n=1}^{\infty} E_n$, such that, for every n , L_n is congruent to E_n (in the sense of superposability). The argument uses a result of Banach and Tarski [Fund. Math. 6, 244-277 (1924)]. A corollary is the validity, under the continuum hypothesis, of a like result when L is an n -dimensional Euclidean space, $n > 1$. For $n \geq 3$, this result holds (as proved in an earlier paper of the author by a lengthier argument [Fund. Math. 33, 235-244 (1945); these Rev. 8, 140]) without recourse to the continuum hypothesis, congruence being taken in the sense of finite decomposition.

H. Blumberg (Columbus, Ohio).

Source: Mathematical Reviews. Vol 10 No. 2

Some good

STERPINSKI, W.

Sierpiński, W. Sur quelques propriétés du nombre 2^{\aleph_0} .
Mathematica, Timișoara 23, 60-64 (1948).

The author proves without using the axiom of choice various theorems from the arithmetic of cardinal numbers (e.g., if m is a nonfinite cardinal, then $m \leq 2^{\aleph_0}$ implies $2^{\aleph_0} \leq 2^m$). These theorems were announced, without proofs, by A. Tarski [Lindenbaum and Tarski, C. R. Soc. Sci. Lett. Varsovie, Cl. III, 19, 2: 9-330 (1926)], but the following lemma, which is used in the proofs, is new. Any nonfinite set of real numbers can be constructively decomposed into an infinite sequence of nonempty disjoint subsets.

B. Jónsson (Providence, R. I.).

Source: Mathematical Reviews,

Vol. 10 No. 5
zif

SIERPINSKI, W.

Sierpiński, W. Sur un problème concernant les espaces métriques. *Mathematica*

All spaces are metric. A space E contains a model of a space M if there is a one-to-one mapping f of M into E such that $r_s(f(p), f(q)) = k r_M(p, q)$ for all $p, q \in M$. If $k=1$ and $f(M) = E$, E and M are isometric. If $k > 0$, $f(M) = E$ and $|r_s(f(p), f(q)) - r_M(p, q)| \leq \epsilon$ for all $p, q \in M$, E and M differ by less than ϵ . In connection with the problem, ascribed to Borsuk, of the existence of a semi-compact E ($E = \sum^n E_n$, E_n compact) containing, for every compact M , an isometric E_M , the author proves the following results.

(1) There is no compact space which contains a model of every denumerable space. (2) which contains a model of every finite space. (3) There is a semi-compact space which contains, for every finite space M , an isometric E_M . (4) For $\epsilon > 0$ there is a space H with rational distances which differs from E by less than ϵ . (5) There is a denumerable space H_0 with rational distances which contains a space E and all $\epsilon > 0$, contains a space H_ϵ differing from E by less than ϵ [cf. P. Urysohn, Bull. Amer. Math. Soc., 33, 74-90 (1927)].

L.W.

Article 23, 65-69 (1948).

space E contains a model of a space M if there is a one-to-one mapping f of M into E such that $r_s(f(p), f(q)) = k r_M(p, q)$ for all $p, q \in M$. If $k=1$ and $f(M) = E$, E and M are isometric. If $k > 0$, $f(M) = E$ and $|r_s(f(p), f(q)) - r_M(p, q)| \leq \epsilon$ for all $p, q \in M$, E and M differ by less than ϵ . In connection with the problem, ascribed to Borsuk, of the existence of a semi-compact E ($E = \sum^n E_n$, E_n compact) containing, for every compact M , an isometric E_M , the author proves the following results.

(1) There is no compact space which contains a model of every denumerable space. (2) which contains a model of every finite space. (3) There is a semi-compact space which contains, for every finite space M , an isometric E_M . (4) For $\epsilon > 0$ there is a space H with rational distances which differs from E by less than ϵ . (5) There is a denumerable space H_0 with rational distances which contains a space E and all $\epsilon > 0$, contains a space H_ϵ differing from E by less than ϵ [cf. P. Urysohn, Bull. Amer. Math. Soc., 33, 74-90 (1927)].

L.W.

Source: Mathematical Reviews, Vol. 10, No. 1

Sierpiński, Waclaw

Sierpiński, W.
Fund. Math.

Among the
(which were
A. Tarski [C
330 (1926),
 $\mu \cdot \alpha = \mu \cdot \beta$ so
 $\alpha \cdot n = \beta \cdot n$ for
(1) is no longer
order type
 $\gamma \cdot 2 = \gamma \cdot 1$. If
placed by
false, e.g.,

below. Sur la division des types ordinaires
n. 35, 1-12 (1948).

results established here are the two following
stated without proof by A. Lindenbaum and
J. R. Soc. Sci. Lett. Varsovie. Cl. III. 19, 299-
321]. Let α and β be two order types. (1) If
some ordinal number $n > 0$ then $\alpha = \beta$. (2) If
some integer n then $\alpha = \beta$. It is noted that
it is no longer true when n is an order type, e.g., if γ is the
order type of the rational numbers in natural order, for
it is noted that (2) remains true when n is re-
placed by a nonlimiting transfinite ordinal but that it is
false, e.g., when n is replaced by ω since $1 \cdot \omega = 2 \cdot \omega$.

J. Todd (London).

Source: Mathematical Reviews.

Vol. 10 No. 6

SIERPINSKI, WACLAW: About Sets That

Sierpiński, Wacław.
les uns dans les
(1948).

In extension of the let $A \leq B$ mean that the set $A - B$ is finite, and let $A = B$ mean that $A \leq B$ and $B \leq A$. Define a pair of families of sets \mathfrak{A} and \mathfrak{B} , the family \mathfrak{A} having power a and the family \mathfrak{B} having power b , to be $A \in \mathfrak{A}, B \in \mathfrak{B}$ and if for no X it is known that no $X \in \mathfrak{A}$, $X \in \mathfrak{B}$ do exist. It is shown under the continuum hypothesis that also shown with the aid of the continuum hypothesis that Ω, ω (ordinal) gaps and limits exist. Finally, again using the continuum hypothesis, an \mathfrak{N} -set Y and a pair of transfinite sequences of \mathfrak{N} -sets A_μ ($\mu < \Omega$) and B_μ ($\mu < \Omega$) are constructed with $A_\mu < A_\nu$ for all $\mu < \nu < \Omega$ such that $Y < B_\mu < B_\nu$ for all $\mu < \nu < \Omega$ such that $Y = Y$ for any set X for all $\mu < \Omega$.

Source: Mathematical Reviews.

Are Quasi Continuous in One Another

sur les ensembles presque contenus
l'un dans l'autre. Fund. Math. 35, 141-150.

Vol. 10, No. 10

8th

SIERPINSKI, WACLAW

Sierpinski, Wacław.

Sur l'équivalence des ensembles par décomposition en deux parties. Fund. Math. 35, 151-158 (1948).

Two sets A and B in a Euclidean space are equivalent by decomposition if they admit decompositions into disjoint components: $A = A_1 + \cdots + A_n$, $B = B_1 + \cdots + B_n$, with A_i and B_i , $i=1, \dots, n$, congruent by rotation. The sets A and B are equivalent by finite decomposition if there exists a positive integer n such that $A =_n B$. Among other results, the author proves that, if K is the linear continuum, and then $K =_n K - B$. If R and A , respectively, are the sets of rational and of algebraic numbers, then R and A are not equivalent by finite decomposition; nor are R and D so equivalent, where D is the set of finite decimal fractions. It is finally proved, with the aid of a result of Hausdorff, that the surface S of a sphere is decomposable into 10 disjoint parts of which four and six yield respectively, upon suitable translations and rotations, two spherical surfaces each congruent to S . This result connects with one due to R. M. Robinson [Fund. Math. 34, 246-260 (1947), in particular, p. 254; these Rev. 10, 106]. Most of the proofs are elementary and brief.

Source: Mathematical Reviews,

Vol. 10 No. 7

CONFIDENTIAL

SIERPINSKI, W.

Sierpinski, Waclaw. Sur les
mesures. Fund. Math. 35:

If E is a set of real numbers, its translation by a is the set of $x+a$ for all x in E . How many distinct translations does a given set have? (Dist. lap.) If $N(E)$ is the number of distinct translations, then $N(E)$ is infinite unless E is empty or the set of all real numbers, and for every cardinal m with $\aleph_0 < m \leq 2\aleph_0$ there are sets E for which $N(E) = m$. If $N(E) = \aleph_0$ then E is non-measurable, has the property (*): the outer measure of E in every interval is the length of the interval. Every E which is not a null-set and for which $N(E) < 2\aleph_0$ has this property (*).

L. Halperin (Kingston, Ont.).

Source: Mathematical reviews.

Vol. 10 No. 9

of

Sierpiński, Wacław

Sierpiński, Wacław. Sur un problème de la théorie générale des ensembles équivalent au problème de Zorn. Fund. Math. 35, 165-174 (1948).

The problem in question is whether a class \mathcal{F} satisfying the three following conditions is necessarily countable.
(1) If $x \in \mathcal{F}$, $y \in \mathcal{F}$ then either $X \subset Y$, $X \supset Y$ or $X \cap Y = \emptyset$. (2) If $F_1 \subset \mathcal{F}$ and if $x \in F_1$, $y \in F_1$ imply $X \cap Y = \emptyset$ then F_1 is at most countable. (3) If $F_1 \subset \mathcal{F}$ and if $x \in F_1$, $y \in F_1$ imply either $X \subset Y$ or $X \supset Y$ then F_1 is at most countable and contains a maximal element. The author points out, in a footnote added in proof, that D. Maharam [Bull. Amer. Math. Soc. 54, 381-390 (1948); these Rev. 9, 573] has noted that the condition (3) can be replaced by (4) if $F_1 \subset \mathcal{F}$ and if $0 \neq X \in F_1$, $0 \neq Y \in F_1$ imply $X \cap Y = \emptyset$ then F_1 is at most countable. Conditions (2) and (4) are weaker than (2) and (3).

J. Todd (London).

Source: Mathematical Reviews.

Vol. 10 No. 6

Sierpiński, Wacław

Sierpiński, Wacław. Sur l'analyticité de l'espace D_α au sens de Menger. Fund. Math. 35, 208-212 (1948).

K. Menger [Jber. Deutsch. Math. Verein. 37, 213-226 (1928)] called a separable metric space M analytic if it could be represented in the form $M = \sum \prod A(n_1, n_2, \dots, n_k)$ where the product is over $k = 1, 2, \dots$, where the summation is over all infinite sequences (n_1, n_2, \dots) of integers, and where the sets A are closed in M and such that (*) each product $\prod A$ reduces to a single point (provided no set A is empty). The author now defines, in the nonseparable set D_α [M. Fréchet, Les Espaces Abstraits, Gauthier-Villars, Paris, 1928, p. 97], a system of closed sets $\{A(n_1, n_2, \dots, n_k)\}$ which have the property (*) and for which $D_\alpha = \sum \prod A$.

J. Todd (London).

Source: Mathematical Review,

Vol. 10 No. 6

Wacław Sierpiński

Sierpiński, Wacław. Exemple effectif d'une famille de \aleph_0 ensembles linéaires croissants. Fund. Math. 35, 213-216 (1948).

The object of this note is to define effectively a family F of $\aleph_0 (= 2^{\aleph_0})$ linear, increasing sets (i.e., such that each of these sets is a sub- or superset of each of the others). The chief aid is the following lemma, whose proof is a modification of an idea of Lebesgue [J. Math. Pures Appl. (6) 1, 139-216 (1905), in particular, p. 213]. One can effectively define a function $f(D)$ which mates with each denumerable set D of ordinals greater than ω and less than Ω a linear, nonnull set $f(D)$ such that $f(D)$ and $f(D')$ are disjoint whenever D and D' are distinct. The proof proceeds by considering the infinite sequence r_1, r_2, \dots of all rationals, and representing an irrational x , $0 < x < 1$, by the continued fraction

$$x = \frac{1}{r_1(x)} + \frac{1}{r_2(x) + \dots},$$

where the r 's are uniquely determined positive integers. If u_1, u_2, \dots is an infinite sequence of distinct rationals,

Source: Mathematical Reviews.

Wacław Sierpiński

$\nu(u_1, u_2, \dots)$ denotes the order type of the u_i when arranged according to magnitude. If, now, D is a denumerable set of ordinals greater than ω and less than Ω , $f(D)$ is defined as the set of all the irrationals x , $0 < x < 1$, such that the set of order types

$$\nu(r_{\alpha^k-1}, \alpha, r_{\alpha^k-1}, \alpha, r_{\alpha^k-1}, \alpha, \dots)$$

with $k = 1, 2, \dots$, is identical with D except permissibly for the order of its terms. It follows at once from the result of this note, by the adjunction of the continuum hypothesis [as was proved in a different manner by the author in his Hypothèse du Continu, Warsaw, 1934, p. 120] that the continuum is the sum of \aleph_0 increasing sets.

H. Bloomberg (Columbus, Ohio).

LFB

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Vol 10, No. 10

SIERPINSKI, WACŁAW

Sierpiński, Waclaw. Remarque sur deux axiomatiques des espaces abstraits. Soc. Sci. Lett. Varsovie. C. R. Cl. III. Sci. Math. Phys. 40 (1947), 46-49 (1948). (French. Polish summary)

This paper shows that from the topological point of view the study of the "gestufte Raum" of Hausdorff [cf. Fund. Math. 25, 486-502 (1935), p. 489] is equivalent to the study of the (U) space of Fréchet [cf. Les espaces abstraits . . . Gauthier-Villars, Paris 1928, p. 277] satisfying the additional condition (C): If V_1 and V_2 are neighborhoods of a then there is another neighborhood V of a such that $V \subset V_1 V_2$. (" x_0 is a point of accumulation of X " is defined to mean "every neighborhood of x_0 contains infinitely many points of X "). It is shown that if one begins with a (U) space satisfying (C), and lets X' be the set of points of accumulation of X , then $X \rightarrow X_1 = X + X'$ defines a "gestufter Raum". It is also proved that if one begins with a "gestufter Raum", then " V is a neighborhood of a " means " $a \in (E - V)_A$ " defines a (U) space satisfying (C); and from the (U) space so obtained, $X + X'$ is the same as X_A of the "gestufter Raum". *H. Tong* (Paris).

Source: Mathematical Reviews,

Vol. 12 No. 7

Spinek

Sierpiński, Waclaw

Sierpiński, Waclaw. Sur les relations entre quelques propriétés fondamentales des espaces topologiques. Soc. Sci. Lett. Varsovie, C. R. Cl. III, Sci. Math. Phys. 40 (1947), 66-78 (1948). (French. Polish summary)

Let S be a T_1 space. The author studies relations among the following properties concerning S . (II): S is a Hausdorff space; (A): S satisfies the first axiom of countability; (B): S possesses a denumerable base; (C): no infinite sequence can sequentially converge to two distinct limits; (D): S is a denumerable set. It is shown that $A \cdot D \rightarrow B$ and $A \cdot C \rightarrow H$. He then shows the existence or nonexistence (by examples or easy deduction) from the relations given in the preceding sentence and the facts that $B \rightarrow A$ and $H \rightarrow C$ of T_1 spaces having the above properties (or negations) conjointly. All the thirty-two possibilities are studied. If G is the property that $E \subset S$ and $a \in E - \{a\}$ implies a is the sequential limit of a sequence of elements different from a , then clearly $A \rightarrow G$. An example of a denumerable Hausdorff space which does not enjoy G is given.

H. Tong (Paris).

Source: Mathematical Reviews.

Vol 12, No. 3

SIERPINSKI, W.

Not.
Sierpiński, W. Remarques sur la décomposition des nombres en sommes des carrés de nombres impairs. Colloquium Math. 2, 52-55 (1949).

The author notes the equivalence of the two theorems:
(A) Every integer of the form $8k+3$ is the sum of three squares and (B) every integer is the sum of at most 10 odd squares, due respectively to Gauss and Turski. If one seeks to base a proof of either (A) or (B) on Lagrange's theorem, (C) every integer is the sum of four squares, using only very elementary reasoning one can prove: (D) Every integer is the sum of at most 11 odd squares. D. H. Lehmer.

Source: Mathematical Reviews,

Vol. 12 No. 7

SIERPINSKI, W.: Remarks on the Decomposition of Numbers into Sums of the Squares of Odd Numbers

Sierpiński, Wacław.

Sur les ensembles linéaires dénombrables équivalents par décomposition finie. Fund.

Math. 36, 1-6 (1949).

Two sets A and B are equivalent by finite decomposition (in notation, $A \sim B$) if there exist a positive integer n , and decompositions $A = A_1 + \cdots + A_n$, $B = B_1 + \cdots + B_n$ into disjoint sets, such that A_i and B_i , $i = 1, \dots, n$, are superposable (by translation or rotation). Among other results are the following. (I) If E is a linear infinite set, there exists a subset H of E such that $E \not\sim H$ (i.e., $E \sim H$ is false). The proof, which is brief and simple, distinguishes the two cases, (1) E bounded, (2) E unbounded; the reasoning, however, is similar, proceeding by inductive definition of H as an infinite sequence by means of the distances of point pairs of E . (II) If E_1, E_2, \dots is an infinite sequence of infinite linear sets such that, for every n , $E_{n+1} \sim$ a subset of E_n , then there exists an infinite set E such that, for every n , $E \sim$ a subset of E_n but $E \not\sim E_n$. The proof is inductive, and depends on (I). (III) If A is a bounded set of rational numbers, there is no proper subset B of A such that $B \sim A$. (IV) There exists a family of $c(-\aleph_0)$ sets of positive integers such that no pair of them are equivalent by finite decomposition.

H. Blumberg

Source: Mathematical Reviews.

Vol. 11 No. 3

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Sierpiński, Wacław

Sierpiński, Wacław. Sur un Problème de M. Lusin concernant les familles d'ensembles analytiques. Fund. Math. 36, 44-47 (1947).

A family of sets Φ is said to have the property τ_n (n being finite or \aleph_0) if, for any sequence of sets E_i ($i=1, 2, \dots, n$) chosen arbitrarily from Φ , there exists a sequence of sets H_i of Φ for which we have $\prod E_i H_i = 0$ and $E_i - \prod_{j < i} E_j \subset H_i$.

Theorem: If Φ is additive and measurable in the sense) and has τ_2 , then it has also τ_3 , τ_4 ,

This result shows, in particular, that the family \mathcal{F}_1 of complements of analytic sets [this is an affirmative solution for a problem proposed by N. Lusin [C. R. (Doklady) Acad. Sci. URSS (N.S.) 3 (1934), 280-284]] or of sets PCA (in a complete separable space), and \mathcal{F}_2 of Borel sets of additive class α ($\alpha > 0$) (in a metric space) have τ_n for $n=2, 3, 4$. Then, the author gives an example which shows that we cannot extend the above theorem to the case $n=\aleph_0$. The problem of whether the family \mathcal{F}_1 or \mathcal{F}_2 has τ_{\aleph_0} is left open.

Finally, the author shows by an example that there exist three analytic sets E_1, E_2, E_3 for which no Borel sets Q_1, Q_2, Q_3 have the property: $E_i - E_j, E_i \cdot E_k \subset Q_i$ ($i=1, 2, 3$) and $Q_1 \cdot Q_2 \cdot Q_3 = 0$, which answers negatively another problem of N. Lusin [loc. cit.].

Vol. 11 No. 9

SIERPINSKI, WACŁAW

Sierpiński, Wacław. Sur les familles croissantes d'ensembles des termes. Fund. Math. 36, 48-50 (1949).

Let Φ be a family of subsets of a (not necessarily separable) metric space, such that, whenever $E_1, E_2 \in \Phi$, either $E_1 \subset E_2$ or $E_2 \subset E_1$. The author shows very simply that if the sets of Φ are either all closed, or all scattered (clairsemé), their union S is either the union of countably many sets of Φ , or is itself closed or scattered, respectively. Thus, in all these cases, S is an F_σ set. Further, if the sets of Φ are closed and form an increasing transfinite sequence $\{E_\alpha\}$, then $\bigcup(E_{\alpha+1} - E_\alpha)$ is F_σ .

A. H. Stone (Manchester).

Source: Mathematical Reviews.

Vol. 37 No. 3

SMITH

SIERPIŃSKI, WACŁAW

Sierpiński, Waclaw. Sur l'opération $\lim_{y \rightarrow x}$ $\Phi(x, y)$. Fund.

Math. 36, 51-55 (1949).

This note supplies proofs for theorems previously announced by the author [Pont. Acad. Sci. Acta 4, 203-204 (1940); these Rev. 2, 256]. It is shown that there exist $\Phi(x, y, z)$ of Baire class 2 such that the statement " $f(x) = \liminf_{y \rightarrow x} \limsup_{z \rightarrow y} \Phi(x, y, z)$ is measurable" is not decidable.

L. W. Cohen (Flushing, N. Y.).

Stewart

Source: Mathematical Reviews,

Vol. 11 No. 4

Set

SIERPIŃSKI, WACŁAW

Sierpiński, Waclaw. Sur les propriétés des ensembles
ordinaux. Fund. Math. 36, 56-67 (1949).

Let θ be any transfinite ordinal and let U_θ be the class of transfinite sequences of type θ formed by the numbers 0 and 1, ordered lexicographically. The author improves a result of Hausdorff [Grundzüge der Mengenlehre, Veit, Leipzig, 1914, pp. 181-182] by showing that (I) every ordered set of power \aleph_0 (where \aleph_0 is any ordinal) is similar to a subclass of U_{\aleph_0} ; (II) the number ω , in (I) cannot be replaced by a smaller ordinal. (Hausdorff had shown (I) for sequences formed from the numbers 0, 1, 2.) In the course of the proof it is shown (I) that a class U_β has no gaps, i.e., whenever U_β is cut into 2 classes A and B such that every sequence of A precedes every sequence of B , then either A has a last element or B has a first element; (II) that U_β contains no well-ordered subclass of power greater than β . If by a class of type ν we mean an ordered class which is neither co-initial nor co-final with any subclass of power less than ν , then (III) every successive or power

less than \aleph_0 , the remaining results of the paper can be stated as follows. (III) If ν is an ordinal of the first kind and $\nu = \mu + 1$, then U_ν has an ordered subclass E of power 2^μ such that for any ordered class of power \aleph_0 , there exists a subclass of E which is similar to it. (IV) If ν is any non-negative ordinal, there is a class of type \aleph_0 with power 2^ν . (V) Every class of type $\aleph_{\nu+1}$ has power at least 2^ν ($\nu \geq 0$). (VI) The least possible power of a class of type \aleph_ν is 2^ν .

I. L. Neust (Wellesley, Mass.).

Source: Mathematical Reviews.

Vol. 11 No. 3

CON
DZ

Sierpiński, Waclaw

Sierpiński, Waclaw. Sur la décomposition des espaces métriques en ensembles disjoints. Fund. Math. 36, 68-71 (1949).

Let M be a metric space such that every (nonempty) open set in M contains at least $m \geq \aleph_0$ points. Then M is the sum of m disjoint sets each of which contains at least m points of each open subset of M . This is the solution, for the metric case, of the problem of "determining the largest number of disjoint dense subsets possible in a resolvable space," proposed by E. Hewitt [Duke Math. J. 10, 309-333 (1943); these Rev. 5, 46; a space is resolvable if it is the sum of two disjoint dense sets]. For $m = \aleph_0$, it reduces to the statement that every metric space M which is dense in itself is the sum of an infinite sequence of disjoint dense sets. A set is condensed if each of its open subsets is uncountable. The theorem given above implies that every condensed metric space is a sum of uncountably many disjoint condensed sets each of which is dense in the space.

E. E. Moise (Princeton, N. J.).

Source: Mathematical Reviews, 1970 Vol 11 No. 2

SIERPINSKI, W.

Sierpiński, W., and Singh, A. N. On derivate of discontinuous functions. Fund. Math. 36, 283-287 (1949).

The authors prove the following results. (i) There exists a function $f(x)$, continuous on the right but discontinuous at an everywhere dense set, such that everywhere the lower right derivate of $f(x)$ is zero. (The construction depends on the expression of $f(x)$ in the scale of 3 defined in terms of the expression of x in the scale of 2.) (ii) If a function has a finite right hand differential coefficient everywhere, the discontinuities of the function form a nondense set. The use of the symbol $f'_+(x)$ to denote both the lower right derivate and also (in the latter part of the paper) the right hand differential coefficient may cause some trouble to the reader.

U. S. Haslam-Jones (Oxford).

Vol 12, No. 2.

Source: Mathematical Reviews,

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